



Workshop on Blockchain and its Applications

Jointly organized by

C3I Center, IIT Kanpur & NSC Lab, IIIT Allahabad
(18th & 19th August 2018) URL: <https://blockchain.iiita.ac.in>



Venue: Indian Institute of Information Technology, Allahabad (As a part of celebration of IIT-A beyond 20 by 2020)

About the workshop

Blockchain is an emerging platform for developing decentralized applications and data storage, over and beyond its role as a platform for cryptocurrencies. The basic tenet of this platform is that it allows one to create a distributed and replicated ledger of events, transactions, and data generated through various IT processes with strong cryptographic guarantees of tamper resistance, immutability, and verifiability. Public blockchain platforms allow us to guarantee these properties with overwhelming probabilities even when untrusted users are participants of distributed applications. Even though, blockchain technology has become popularly known because of its use in the implementation of Cryptocurrencies such as BitCoin, Ethereum, etc., the blockchain platform holds much more promise in various areas such as time stamping, logging of important events in a system, recording transactions, e-governance etc. Many researchers are working on many such use cases such as Key Distribution, registry maintenance, health record management, decentralized authentication, decentralized DNS, etc. This workshop invites students, academicians and industry researchers to share innovative research work, projects, and their knowledge base in this burgeoning field of technology.

Objectives of the workshop

- To disseminate of the knowledge of blockchain technology among students, researchers and academicians. The overarching goal is to create awareness and interest in this technology among students, and researchers. Trained manpower in this field is a growing necessity for the country.
- To discuss the current status of the blockchain development and research work in India and across the world.
- To bring together researchers to presents their work in progress on blockchain and receive expert comments on such work in progress.

About C3I Center, IIT Kanpur

SERB/DST funded the Interdisciplinary Centre for Cyber Security and Cyber Defence of Critical Infrastructures at IIT Kanpur to create Indias first research centre whose mission is to do research, education, training, and to spawn start ups to create technological safe guards to protect critical infrastructure. The centre is building-Indias first cyber security test bed for critical infrastructure similar to what is available at Idaho national labs, Sandia National Labs and NIST in the US. The centre is also engaged with international partners from Israel, and USA in developing research and technology exchange, student training, as well as hosting conferences, workshops, and cyber security competitions to create awareness.

About NSC Lab, IIIT-Allahabad

Network Security & Cryptography (NSC) Lab under Department of Information Technology, IIIT- Allahabad is established with the motive of developing various techniques and algorithms to protect the network infrastructure against various attacks. Various research areas in the field of Network Security and Cryptography is identified and research is initiated to fulfill the security requirements. NSC lab is started to provide necessary infrastructure to the students of IIIT-Allahabad to carry out their research in the field of security and cryptography.

Registration Process

Interested can register on or before 10th August 2018 at <https://blockchain.iiita.ac.in/register.php>

Speakers

Experts from IIT-Kanpur, IIT-Delhi, IBM India Research Lab, Sofocle Technologies Pvt. Ltd. and IIIT - Allahabad

Topics to be Covered

- Introduction to Blockchain
- Ethereum & Distributed Consensus
- Hyperledger Fabric

Call for Posters

- Distributed Consensus & Lightweight Blockchain
- Blockchain & Smart contract

Best posters will get the certificate and prize money.

Registration fee

- IIT-K and IIIT-A Participants - ₹1000
- Student Participants - ₹1200
- Other participants - ₹2400

Note: Registration fees include registration kit, lunch and snacks during session.

Organizing Committee

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